

Claims

1. A process for reducing the content of NO_x and N_2O in gases, in particular in process gases and offgases,
5 which comprises the measures:
 - a) addition of at least one nitrogen-containing reducing agent to the NO_x - and N_2O -containing gas in at least the amount required for complete reduction of the NO_x ,
 - 10 b) addition of a hydrocarbon, of carbon monoxide, of hydrogen or of a mixture of one or more of these gases to the NO_x - and N_2O -containing gas for the reduction of the N_2O and
 - c) introduction of the gas mixture into at least one
15 reaction zone at temperatures of up to 450°C which contains one or more iron-laden zeolites.
2. The process as claimed in claim 1, characterized in that the nitrogen-containing reducing agent is
20 ammonia.
3. The process as claimed in claim 1, characterized in that the reaction zone or zones contains an iron-laden zeolite which has channels made up of twelve-
25 membered rings.
4. The process as claimed in claim 3, characterized in that all channels of the iron-laden zeolite are made up of twelve-membered rings.
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5. The process as claimed in claim 4, characterized in that the iron-laden zeolite is of the BEA or FAU type.
- 35 6. The process as claimed in claim 1, characterized in that the nitrogen-containing reducing agent is ammonia and in that ethane, propane, butane, synthesis gas or LPG and in particular methane is used as

reducing agent for N_2O .

7. The process as claimed in claim 6, characterized
in that an iron-laden zeolite of the BEA type is used
5 as iron-laden zeolite.